



Volunteer State Solar Initiative

DOE State Energy Program

ARRA Funding

March 1, 2010

Volunteer State Solar Initiative

- \$62.5 million ARRA funds
 - DOE grant to ECD, State Energy Program
- 2 related projects:
 - Tennessee Solar Institute at UT and ORNL (\$29.2 M)
 - West Tennessee Solar Farm near Brownsville (\$31 M)
- Designed to leverage existing solar base, support recent solar recruits, and attract new solar investments



Tennessee Solar Institute



Encourage growth of Tennessee's solar industry

- \$14.5M in grant funds
 - Technical Assistance
 - Facilities and Equipment Improvements
 - Renewable Energy Products
 - Process Improvements
 - Technology Improvements
 - Workforce Development



Solar Installation Grants



Speed the deployment of solar energy

- \$9M in grant funds
 - Installation of “small scale” units
 - Eligibility:
 - For-profit retail, industrial or commercial business
 - Farms (51% income generated by farming operations)
 - Eligible Systems:
 - PV systems installed on or adjacent to existing buildings
 - Appropriately sized for structure or <60kW systems
 - Maximum Award:
 - 40% of installed cost up to \$75,000



Industry Assistance



- Develop and manage partnerships to support commercialization
- Create and Maintain a database of industry resources and contacts
- Conduct partnering retreats, meetings and seminars
- Provide “on the ground” assistance to industry
- Provide workforce development training opportunities
- Coordinate engineers, scientists and manufacturers in solving specific technical problems and improving cost effectiveness

West Tennessee Solar Farm Objectives

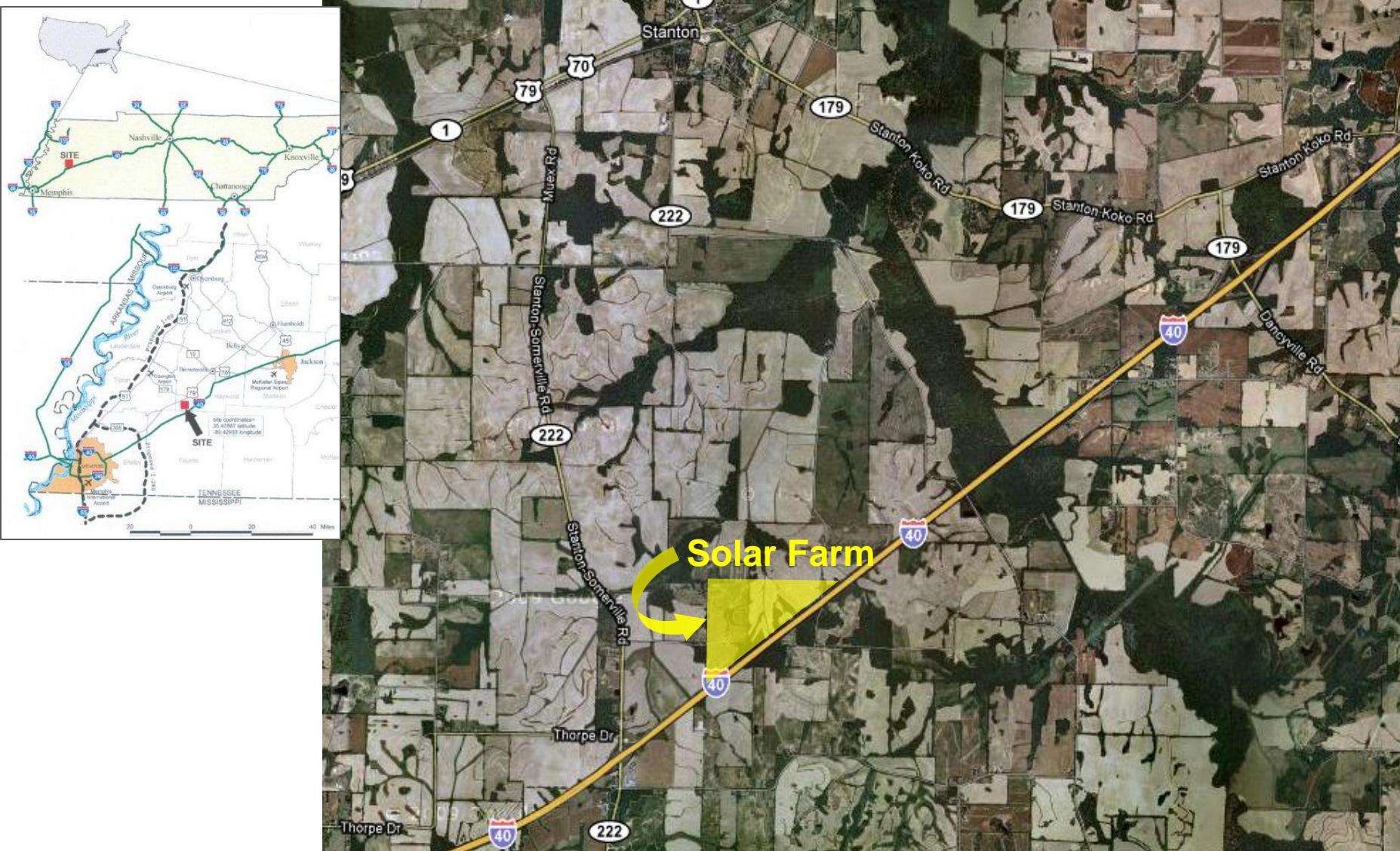


- Utility-scale solar power production
 - 5 megawatts, largest in Southeast
 - Fixed mount, multicrystalline photovoltaic panels
- Connect to TVA power grid through local distributor
- Educate the public concerning solar energy
- Re-invest revenue from power sales in array expansion, improvements, education programs
- Integrate with TDOT Interstate Education & Welcome Center to be co-located with Solar Farm (if approved)

Other Solar Farm Benefits



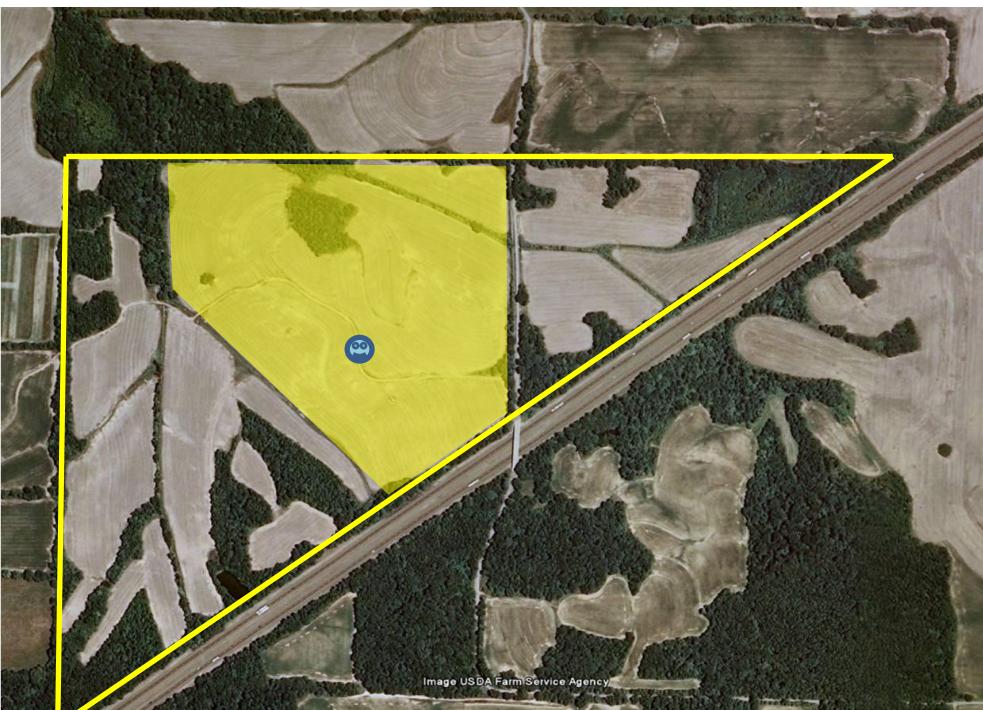
- Future demonstration of emerging technologies, materials
 - Faster commercialization of Solar Institute innovation
- Showcase Tennessee's leadership position in clean, renewable energy
- Potential for multiple points of integration:
 - Highway pull-off education/welcome center
 - Solar powered electric vehicle recharging stations
 - Workforce development through degree, certification programs



Solar Farm Location



Solar Farm Concept



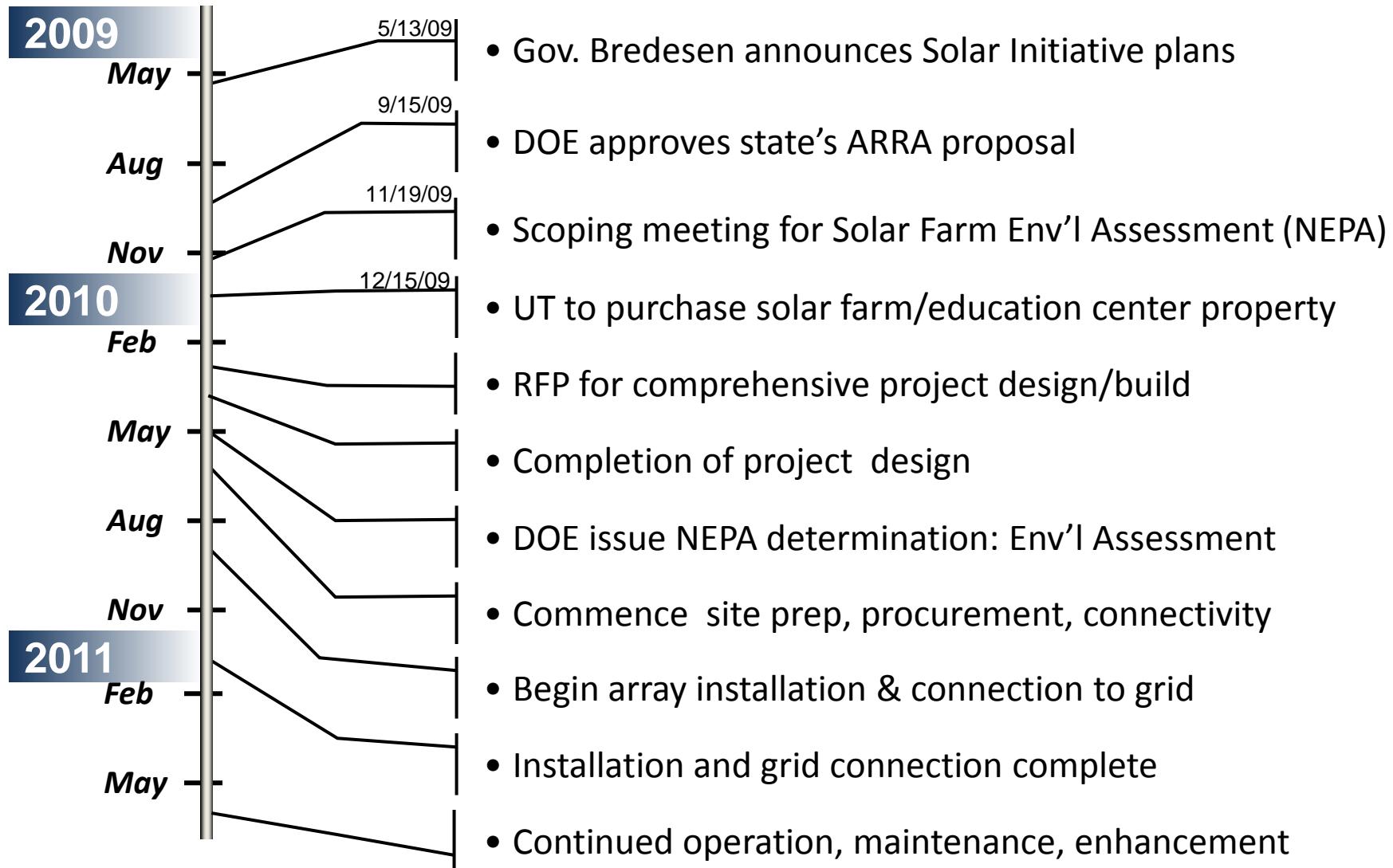
Expect fixed mount multicrystalline solar panels and small scale demonstration of next generation technologies



FOR ILLUSTRATIVE PURPOSES ONLY

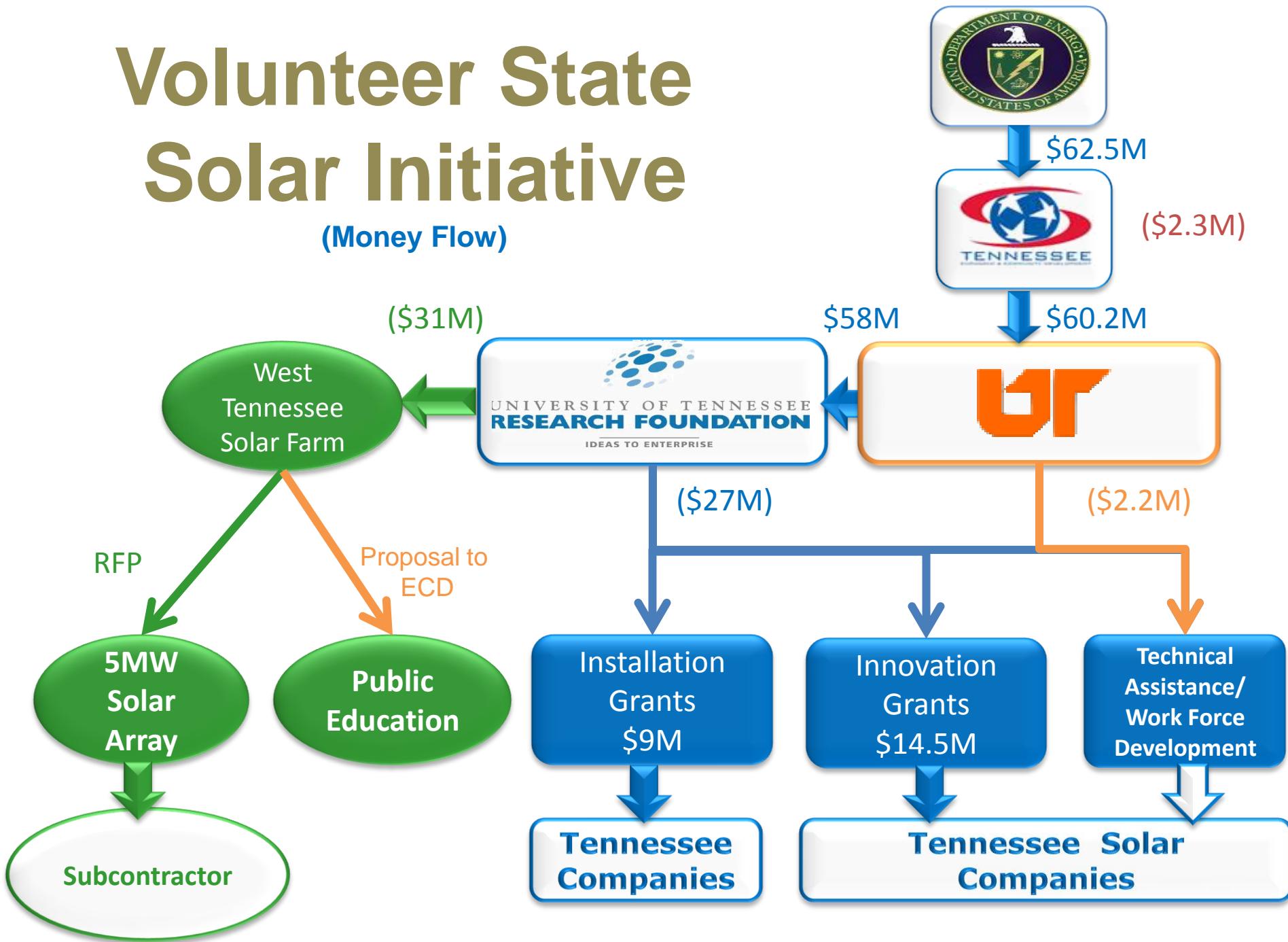


Preliminary Solar Farm Timeline



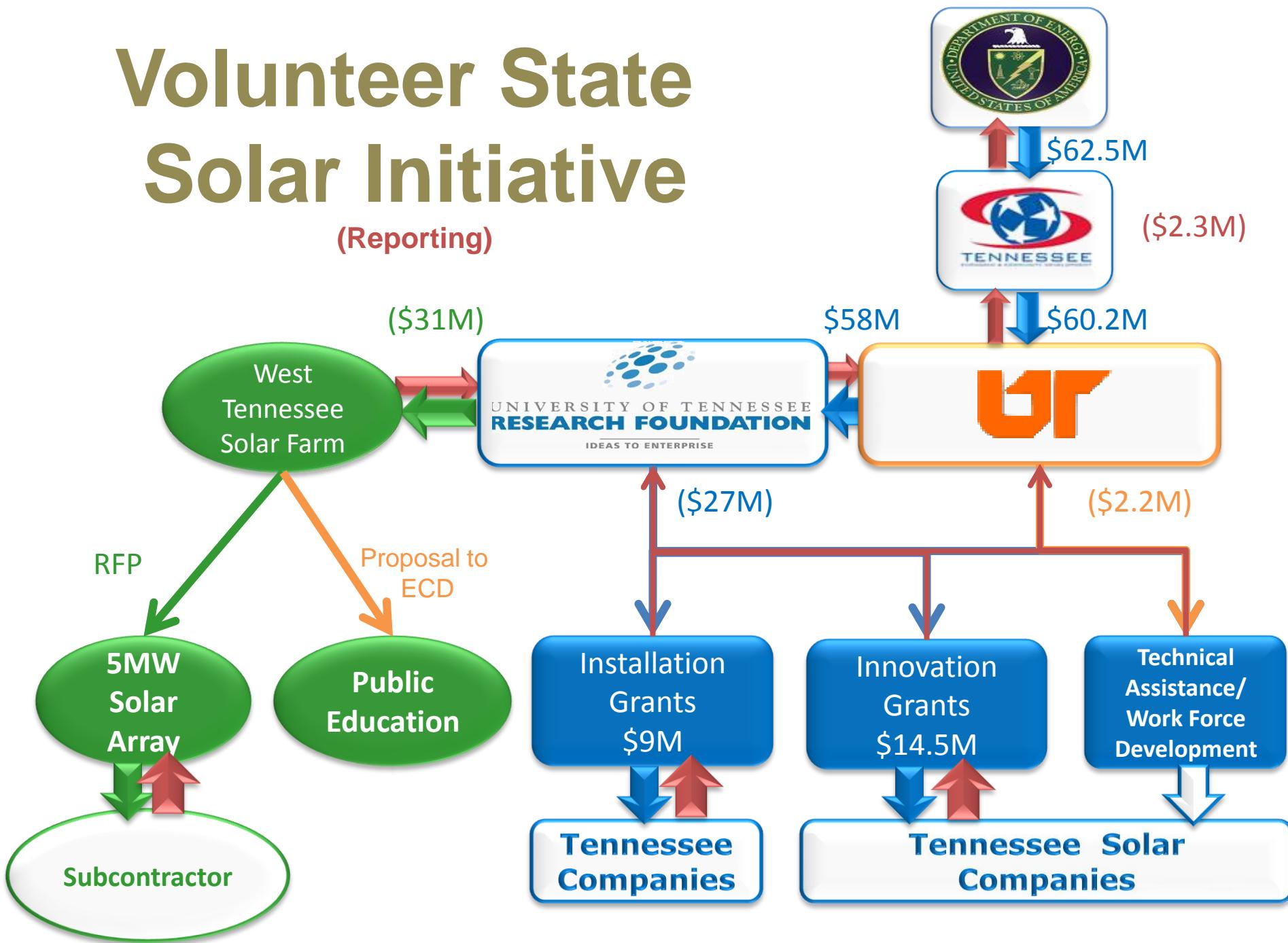
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(Money Flow)

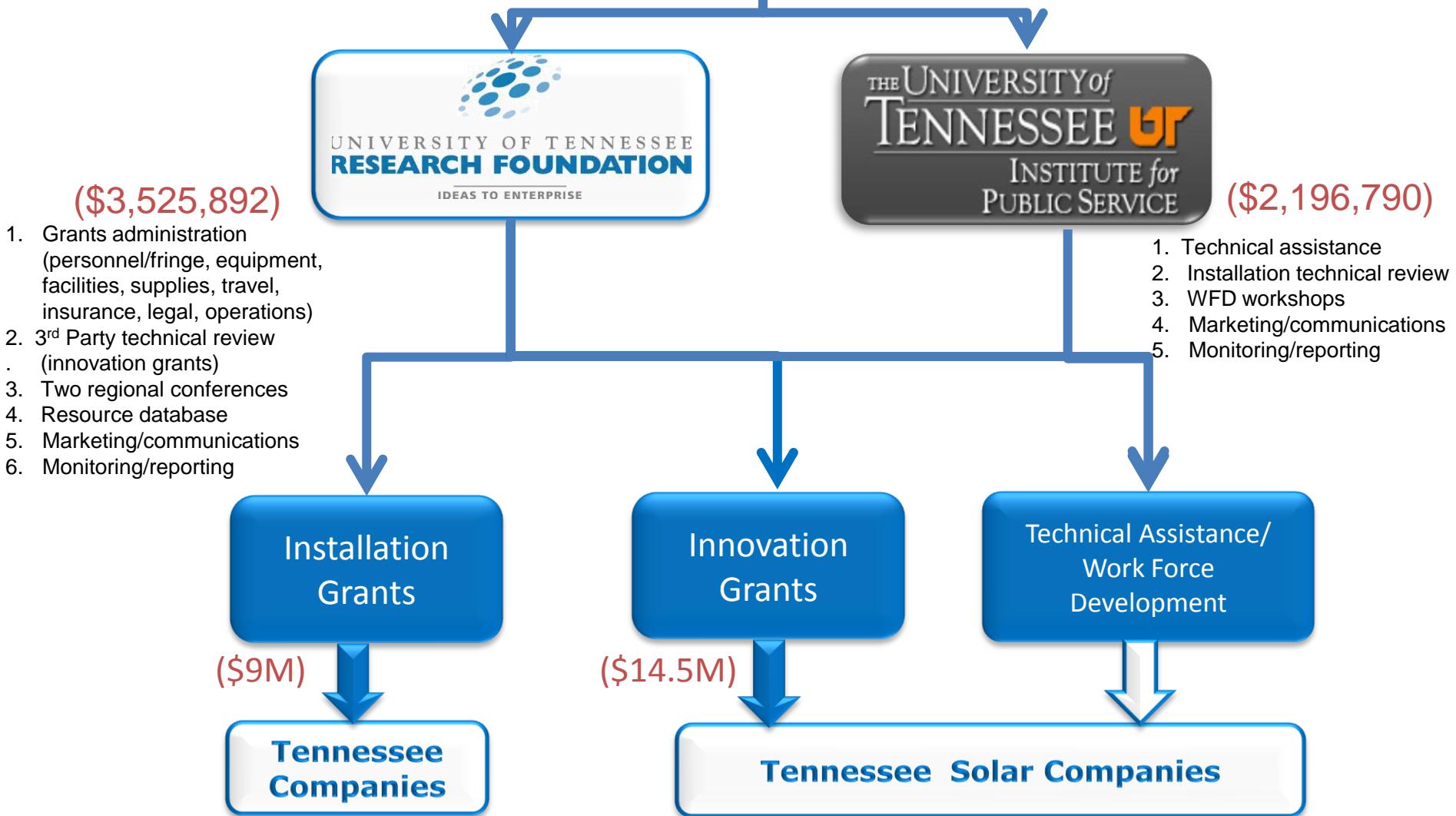


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(Reporting)

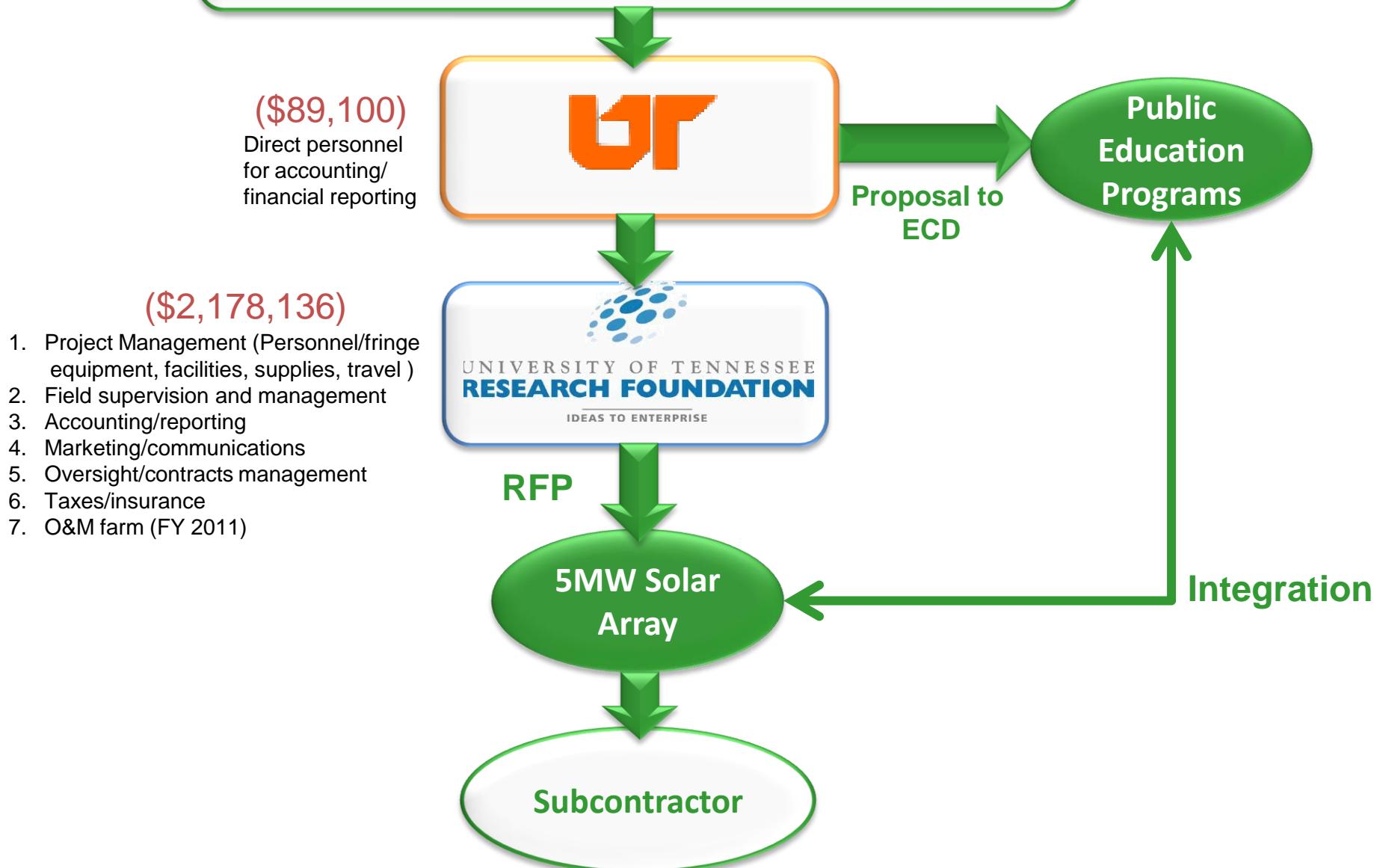


(\$54K)
Oversight/
Management



West Tennessee Solar Farm

DOE SEP-ARRA Funding \$31M



West Tennessee Solar Farm

Beyond ARRA Funds

